



pingApp

uAvionix Ping App
QUICK START GUIDE

Quick Start Guide

The uAvionix Ping App allows configuration of a Ping or FYX navigation source with the aircraft's unique information for broadcast during flight.

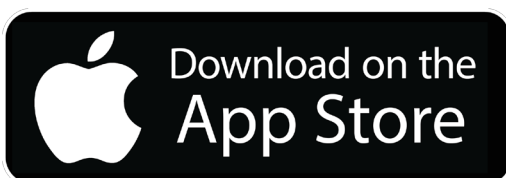
- 1. Install**
- 2. Connect**
- 3. Join**
- 4. Configure ping2020/ping1090**
- 5. Configure ping200S/20S**
- 6. Commit**



Install

1

Install the uAvionix Ping App from either the Apple App Store or Google Play. Search for **uAvionix Ping installer** or use the QR codes below.



After installation proceed to **step 2**.

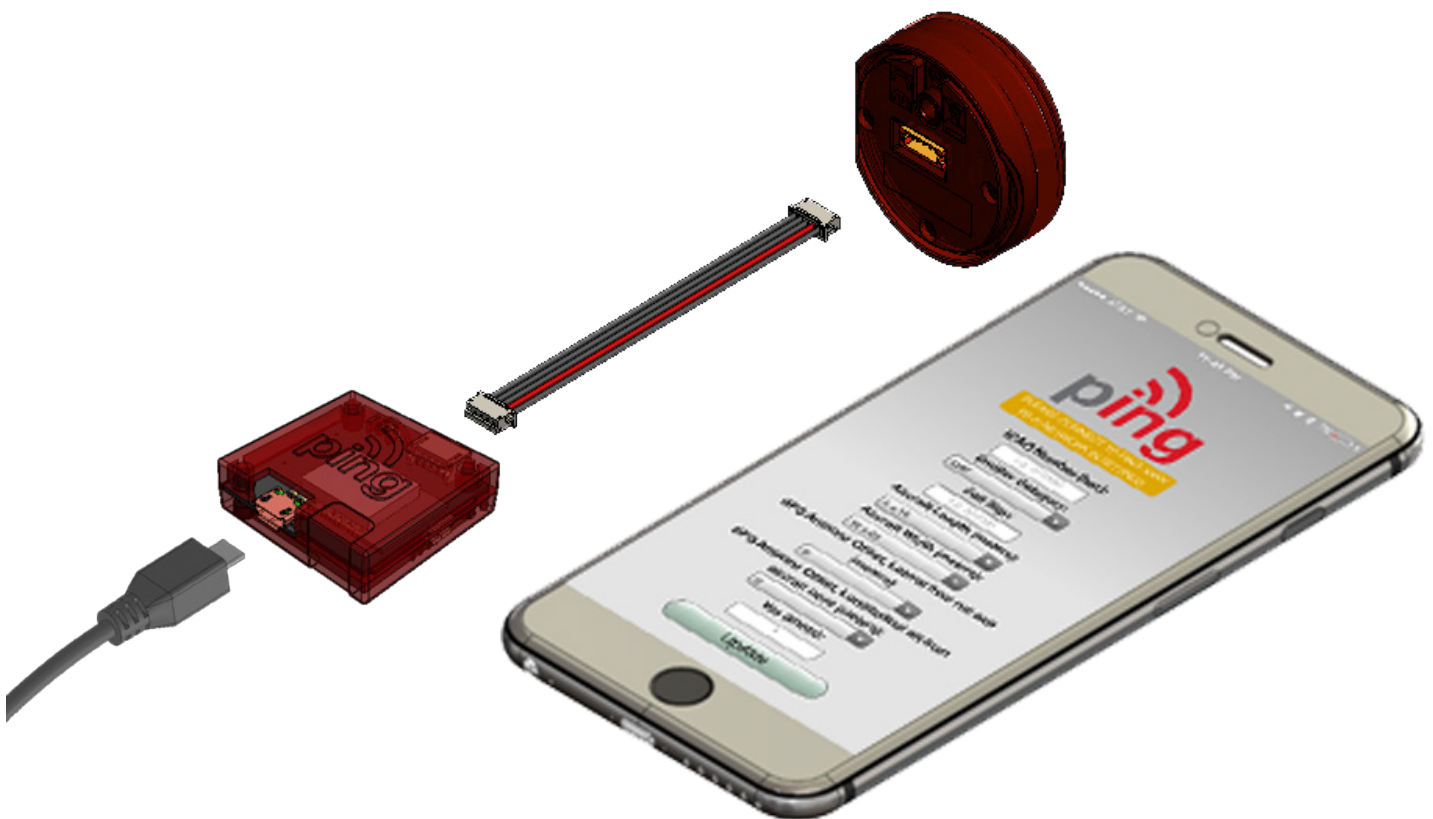


Connect

2

Connect the **ping programmer** to **pingNav** or **FYXnav** using the provided 5 pin cable.

Connect **ping programmer** to a 5v power source using a **Micro-USB** cable.





Join

3

Join your mobile device to the wireless network named **Ping-XXXX** using the procedure for your device. The WPA passphrase is **uavionix**. The process for iOS is shown below.

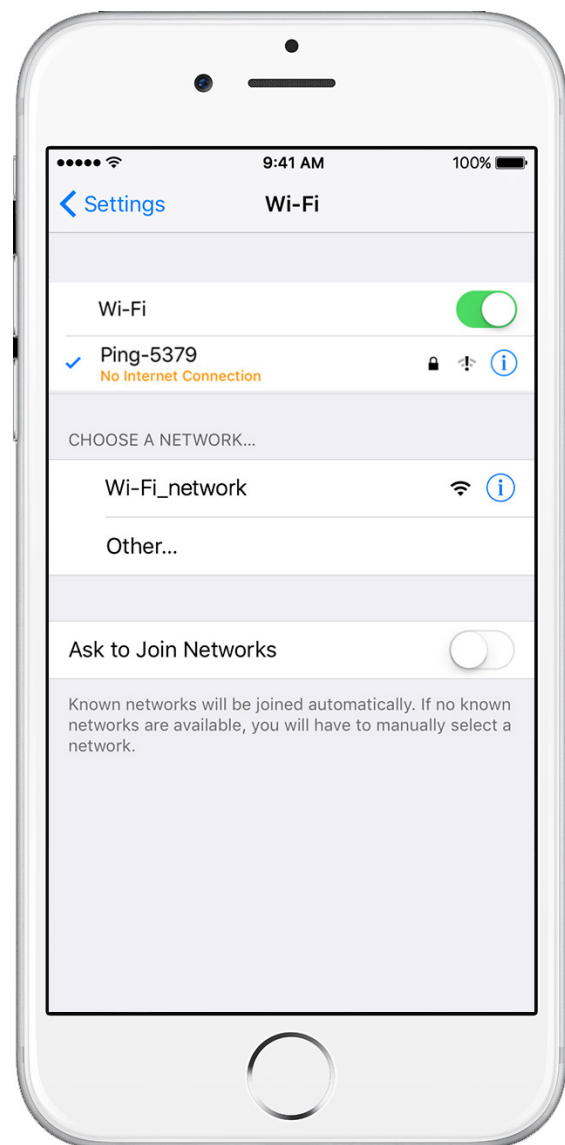
Go to **Settings > Wi-Fi**, and verify Wi-Fi is turned on.

Tap the SSID **Ping-XXXX**, where XXXX is a random string i.e. Ping-5379.

Enter **uavionix** as the WPA password for the secure Wi-Fi network, then tap **Join**. Note: The No Internet Connection message is normal.

ping2020/ping1090 proceed to **step 4**.

ping200S proceed to **step 5**.





Configure 2020/1090

4

Ping2020/Ping1090 launch the **uAvionix Ping** application and complete the fields as required for your device/aircraft.

Selected Device Type: Choose the device the position source will be connected to.

Control: This setting controls device transmit functions. The selections available will depend on the device type selected.

Transceiver selections include:

TX enabled: Transmit ADS-B message at one second intervals, receive is also enabled.

Receive: Receive only, transmit disabled.

Standby: ADS-B in/out disabled.

ICAO: Enter your ICAO Number in Hexidecimal format. If your identifier is in octal (eight digits) format you must convert it prior to entry.

Call Sign: Enter the tail number of the aircraft. (A-Z 0-9)

Emitter: This should be set to your aircraft type. UAV is the selection for unmanned vehicles.

V_{so}: Enter airspeed in knots that the aircraft typically flies at after takeoff. Default value (1)

Aircraft Length: Select the length value in meters that matches your aircraft.

Aircraft Width: Select the width value in meters that matches your aircraft.

GPS Antenna Offsets: Choose the lateral and longitudinal offset in meters from the nose of your aircraft.

Continue to step 6.

The screenshot shows the configuration interface for the 'ping' application. At the top, there is a yellow banner with the text 'PLEASE CONNECT TO PING-XXXX WI-FI NETWORK IN SETTINGS'. Below this, the 'Selected Device Type' is set to 'ping2020'. The 'Control' is set to 'UAT TX enabled'. The 'ICAO Number (hex)' is 'ABC234', the 'Call Sign' is 'DRONE', and the 'Emitter Category' is 'UAV'. The 'V_{so} (knots)' is set to '1'. The 'Aircraft Length (meters)' is 'L ≤ 15' and the 'Aircraft Width (meters)' is 'W ≤ 23'. The 'GPS Antenna Offset, Lateral from roll axis (meters)' is '0' and the 'GPS Antenna Offset, Longitudinal aft from aircraft nose (meters)' is '0'. At the bottom, there is a green 'Update' button.



Configure ping200S/20S

5

200s/20s launch the **uAvionix Ping** application and complete the fields as required for your device/aircraft.

Selected Device Type: Choose the device the position source will be connected to.

Control: This setting controls device transmit functions. The selections available will depend on the device type selected.

Transponder selections include:

Standby: Transponder will not respond to interrogation.

ON: Replies to interrogation with 4 digit squawk code.

ALT: Replies to interrogation with altitude information.

1090ES: ADS-B transmit is always enabled when a 6 digit ICAO code is entered.

ICAO: Enter your ICAO Number in Hexidecimal format. If your identifier is in octal (eight digits) format you must convert it prior to entry.

Call Sign: Enter the tail number of the aircraft. (A-Z 0-9)

Emitter: This should be set to your aircraft type. UAV is the selection for unmanned vehicles.

VFR Code: Enter the default VFR code for your country. The United States code is 1200.

Maximum aircraft speed: Select your aircraft maximum speed.

ADS-B In Capability: Select aircraft ADS-B receive capability.

Aircraft Length: Select the length value in meters that matches your aircraft.

Continue to step 6.

ping
CONNECTED TO DEVICE

Configuration | Monitor

Selected Device Type:
ping200S/20S

Default Control:
Alt

ICAO Number (hex):
[]

Call Sign:
[]

Flight Plan ID:
[]

Emitter Category:
UAV

VFR Code:
1200

Maximum aircraft speed (TCAS):
Not available

ADS-B In Capability:
None

Aircraft Length (meters):
L ≤ 15

Aircraft Width (meters):
W ≤ 23

GPS Antenna Offset, Lateral from roll axis (meters):
0

GPS Antenna Offset, Longitudinal aft from aircraft nose (meters):
0

COM1 Rate:
38400

Update



Commit

6

After completing all data fields click the **Update** button.

You should receive the **Device Configured** message, tap **OK**.

Disconnect power from **ping programmer**.

Connect pingNav or FYXnav to your **ping transceiver or transponder** and power up your UAS.

Confirm your aircraft is broadcasting the correct identification information prior to flight.

Additional support is available at:

uavionix.com/support/

The screenshot shows the 'ping' app interface. At the top, there's a logo with a red Wi-Fi symbol above the word 'ping'. Below the logo is a yellow banner that says 'PLEASE CONNECT TO PING-XXXX WI-FI NETWORK IN SETTINGS'. The main configuration area includes several dropdown menus: 'Selected Device Type' (set to 'ping2020'), 'Control' (set to 'UAT TX enabled'), 'ICAO Number (hex)', 'V_{SO} (knots)' (set to '1'), 'Aircraft Length (meters)' (set to 'L ≤ 15'), 'Aircraft Width (meters)' (set to 'W ≤ 23'), 'GPS Antenna Offset, Lateral from roll axis (meters)' (set to '0'), and 'GPS Antenna Offset, Longitudinal aft from aircraft nose (meters)' (set to '0'). At the bottom is a green 'Update' button. A white dialog box is overlaid in the center, displaying 'Updated Device Configured' with a blue 'OK' button.